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Montana Department of Transportation

Jim Lynch, Director

2701 Prospect Avenue PO Box 201001 Helena MT 59620-1001 Brian Schweitzer, Governor

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June 5, 2007

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Michael Duman Assistant Division Administrator Federal Highway Administration 585 Shepard Way Helena, MT 59601-9785 ENVIRONMENTAL

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Ravalli County Commissioners

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Croxect

Subject:

HSIP 473-1(2)12

SF069 - GUARDRAIL - S OF CONNER

CN 6076000

This is to request approval of this proposed project as a <u>Categorical Exclusion</u> (CE) under the provisions of <u>23 CFR 771.117(d)</u>, and the Programmatic Agreement as signed by the MONTANA DEPARTMENT OF TRANSPORTATION (MDT) and the FHWA on April 12, 2001. A Copy of its Preliminary Field Review Report (8/16/06) is attached. This proposed action also qualifies as a CE under <u>ARM 18.2.261</u> (Sections **75-1-103** and **75-1-201**, MCA).

The following form provides the documentation required to demonstrate that all of the conditions are satisfied to qualify for a Programmatic Categorical Exclusion Approval (PCE) as initially agreed by the (former) MONTANA DEPARTMENT OF HIGHWAYS (MDOH) and the FHWA on December 6, 1989. (Note: An "X" in the "N/A" column is "Not Applicable" to, while one in the "UNK" column is "Unknown" at the present time for this proposed project.)

NOTE: A response in a box will require additional documentation for a Categorical Exclusion request in accordance with 23 CFR 771.117(d).

				<u>YES</u>	<u>NO</u>	N/A	<u>UNK</u>
1.	Thi:	s pro defin	pposed project would have (a) significant environmental impact(s) and under 23 CFR 771.117(a).				
2.	This des	s pro	pposed project involves (an) unusual circumstance(s) as ed under 23 CFR 771.117(b).				
3.	Thi:	s pro ere:	posed project involves one (or more) of the following situations				
	A.	Rig red	pht-of-Way, easements, and/or construction permits would be quired.		\boxtimes		
		1.	The context or degree of the Right-of-Way action would have (a) substantial social, economic, or environmental effect(s).			\boxtimes	
		2.	There is a high rate of residential growth in this proposed project's area.				
		3.	There is a high rate of commercial growth in this proposed project's area.			\boxtimes	
	4. Work would be on and/or within approximately 1.6 kilometers (1± mile) of an Indian Reservation.			\boxtimes			

Environmental Services Bureau Phone: (406) 444–7228 Fax: (406) 444–7245

Engineering Division TTY: (800) 335-7592 Web Page: www.mdt.mt.gov Michael Duman Page 2 June 5, 2007

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			<u>YES</u>	<u>NO</u>	<u>N/A</u>	<u>UNK</u>
	5.	There are parks, recreational, or other properties acquired/improved under Section 6(f) of the 1965 National Land & Water Conservation Fund Act (16 USC 460L, et seq.) on or adjacent to proposed the project area.		⊠		
		The use of such Section 6(f) sites would be documented and compensated with the appropriate agencies. (e.g.: MDFWP, local entities, etc.).			☒	
	6.	Are there any sites either on, or eligible for the National Register of Historic Places with concurrence in determination of eligibility or effect under Section 106 of the National Historic Preservation Act (16 USC 470, et seq.) by the State Historic Preservation Office (SHPO), which would be affected by this proposed project.				
	7.	There are parks, recreation sites, school grounds, wildlife refuges, historic sites, historic bridges, or irrigation that might be considered under Section 4(f) of the 1966 US DEPARTMENT OF TRANSPORTATION Act (49 USC 303) on or adjacent to the project area.				
		 a. "Nationwide" Programmatic Section 4(f) Evaluation forms for these sites are attached. 			\boxtimes	
		 This proposed project requires a full (i.e.: DRAFT & FINAL) Section 4(f) Evaluation. 		\boxtimes		
B.	othe	activity would involve work in a streambed, wetland, and/or er waterbody(ies) considered as "waters of the United States" or ilar (e.g.: "state waters").				
	1.	Conditions set forth in Section 10 of the Rivers and Harbors Act (33 USC 403) and/or Section 404 under 33 CFR Parts 320-330 of the Clean Water Act (33 USC 1251-1376) would be met.				
	2.	Impacts in wetlands, including but not limited to those referenced under Executive Order (E.O.) #11990, and their proposed mitigation would be coordinated with the US Army Corps of Engineers and other Resource Agencies (Federal, State and Tribal) as required for permitting			×	
	3.	A 124SPA Stream Protection Authorization would be obtained from the MDFWP?				
	4.	There is a delineated floodplain in the proposed project area under FEMA's Floodplain Management criteria.				
		The water surface at the 100-year flood limit elevation would exceed floodplain management criteria due to an encroachment by the proposed project.				
	5.	Tribal Water Permit would be required.		\boxtimes		
	6.	Work would be required in, across, and/or adjacent to a river which is a component of, or proposed for inclusion in Montana's Wild and/or Scenic Rivers system as published by the US Department of Agriculture, or the US Department of the Interior				

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		<u>YES</u>	<u>NO</u>	N/A	<u>UNK</u>
	The designated National Wild & Scenic River systems in Montana are:				
	 Middle Fork of the Flathead River (headwaters to South Fork confluence). 			\boxtimes	
	 North Fork of the Flathead River (Canadian Border to Middle Fork confluence). 				
	 South Fork of the Flathead River (headwaters to Hungry Horse Reservoir). 			\boxtimes	
	 d. Missouri River (Fort Benton to Charles M. Russell Nation Wildlife Refuge). 	al 🗌			
	In accordance with Section 7 of the Wild and Scenic Rivers (16 USC 1271 – 1287), this work would be coordinated and documented with either the Flathead National Forest (Flathe River), or US Bureau of Land Management (Missouri River).	_			
C.	This is a "Type I" action as defined under <u>23 CFR 772.5(h)</u> , which typically consists of highway construction on a new location or the physical alteration of an existing route which substantially change its horizontal or vertical alignments or increases the number of through-traffic lanes.	<u> </u>	\boxtimes		
	1. If yes, are there potential noise impacts?			\boxtimes	
	2. A Noise Analysis would be completed.			\boxtimes	
	 There would be compliance with the provisions of both 23 CFR 772 for FHWA's Noise Impact analyses and MDT's Noise Policy. 				
D.	There would be substantial changes in access control involved withis proposed project.	th 🔲			
	If yes, would they result in extensive economic and/or social impact on the affected locations?	cts		\boxtimes	
E.	The use of a temporary road, detour, or ramp closure having the following conditions when the action(s) associated with such facilities:				
	 Provisions would be made for access by local traffic, and be posted for same. 				
	Adverse effects to through-traffic dependant businesses would be avoided or minimized.	B			
	 Interference to local events(e.g.: festivals) would be minimize to all possible extent. 	ed 🛚			
	Substantial controversy associated with this pending action would be avoided.				
F.	Hazardous wastes /substances, as defined by the US Environment Protection Agency (EPA) and/or the Montana Department of Environmental Quality (MDEQ), and/or (a) listed "Superfund" (under CERCLA or CECRA) site(s) are currently on and/or adjacent to this proposed project.	er			

Michael Duman Page 4 June 5, 2007

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		All reasonable measures would be taken to avoid and/or minimize substantial impacts from same.		일 🗌		 ⊠
	<u>ග</u> ්	The Montana Pollutant Discharge Elimination System's conditions (ARM 16.20.1314), including temporary erosion control features for construction would be met.				
	Ξ	Permanent desirable vegetation with an approved seeding mixture would be established on exposed areas.	\boxtimes			
	<u></u>	Documentation of an "invasive species" review to comply with both EO #13112 and the County Noxious Weed Control Act (7-22-21, MCA), including directions as specified by the county(ies) wherein its intended work would be done.	\boxtimes			
	٦.	There are "Prime" or "Prime if Irrigated" Farmlands designated by the Natural Resources Conservation Service on or adjacent to the proposed project area.				
		If the proposed work would affect Important Farmlands, then an AD-1006 Farmland Conversion Impact Rating form would be completed in accordance with the Farmland Protection Policy Act (7 USC 4201, et seq.).				
	¥	Features for the <i>Americans with Disabilities Act</i> (PL 101-336) compliance would be included.			П	
	نـ	A written Public Involvement Plan, would be completed in accordance with MDT's Public Involvement Handbook.	\boxtimes			
4.	T. 43.	This proposed project complies with the <i>Clean Air Act</i> 's Section 176(c) (42 USC 7521(a), as amended) under the provisions of <u>40 CFR 81.327</u> as it's either in a Montana air quality:				
	⋖	"Unclassifiable"/attainment area. This proposed project is <u>not</u> covered under the EPA's September 15, 1997 Final Rule on air quality conformity.	\boxtimes	_	П	
	ம்	"Nonattainment" area. However, this type of proposed project is either exempted from the conformity determination requirements (under EPA's September 15, 1997 Final Rule), or a conformity determination would be documented in coordination with the responsible agencies: (Metropolitan Planning Organizations, MDEQ's Air Quality Division, etc.).				
	ပ	Is this proposed project in a "Class I Air Shed" (Indian Reservations) under <u>40 CFR 52.1382(c)(3)</u> ?		_	\boxtimes	
ιĊ	Ę	Federally listed Threatened or Endangered (T/E) Species:				
	ď.	There are recorded occurrences, and/or critical habitat in this proposed project's vicinity.			\boxtimes	
	മ്	Would this proposed project result in a " <u>jeopardy"</u> opinion (under <u>50 CFR 402)</u> from the Fish & Wildlife Service on any Federally listed T/E Species?		ш	П	

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The proposed project would not induce significant land use changes, nor promote unplanned growth. There would be no significant effects on access to adjacent property, nor to present traffic patterns.

This proposed project would not create disproportionately high and/or adverse impacts on the health or environment of minority and/or low-income populations (EO #12898). It also complies with the provisions of *Title VI* of the *Civil Rights Act* of 1964 (**42 USC 2000d**) under the FHWA's regulations (<u>23 CFR 200</u>).

Date:

Date:

Date: 6/05/07

In accordance with the provisions of <u>23 CFR 771.117(a)</u>, this pending action would not cause any significant individual, secondary, or cumulative environmental impacts. Therefore, the FHWA's concurrence is requested that this proposed project is properly classified as a <u>Categorical Exclusion</u>.

Thomas	G	Gockech	PI	=

Project Development Engineer

MDT Environmental Services Bureau

Concur _____ an /

Tom Hansen, P.E. - Engineering Section Supervisor

Environmental Services Bureau

Federal Highway Administration

TLH:tgg S:\PROJECTS\MISSOULA\6076000\6076ENCED001.DOC

Attachments

Concur

CC:

Dwane Kailey, P.E. - District Administrator - Missoula District

Duane E. Williams, P.E. - Traffic and Safety Engineer John H. Horton - MDT Right-of-Way Bureau Chief

Suzy Price - MDT Contract Plans Section Supervisor

David W. Jensen, Supervisor - MDT Fiscal Programming Section

Dan Smith - Acting Chief, Environmental Services Bureau

Tom Gocksch P.E. - Environmental Services Bureau

Pat Basting - Biologist, Missoula District Office

Ravalli County - 215 SOUTH FOURTH, SUITE A, HAMILTON MT 59840-2853

Environmental Quality Council

MDT attempts to provide accommodation for any known disability that may interfere with a person participating in any service, program or activity of the Dept. Alternative accessible formats of this information will be provided upon request. For further information, call 406-444-7228 or TTY (800-335-7592), or call Montana Relay at 711.



Montana Department of Transportation PO Box 201001 Helena, MT 59620-1001

Memorandum

To:

Paul R. Ferry, PE

Highways Engineer

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AUG 2 1 2006

ENVIRONMENTAL

From:

Damian Krings, PE

Road Design Engineer

Date:

August 16, 2006

Subject:

HSIP 473-1(2)12

SF069 - Guardrail - S of Conner

UPN 6076000

Work Type 310 - Roadway & Roadside Safety Improvements

We request that you approve attached the Preliminary Field Review Report for the subject project.

Approved

Paul R. Ferry, PE Highways Engineer Date 8/17/06

We are requesting comments from those on the distribution. We will assume you concur if no comments are received within two weeks of the report's distribution by Road Design.

Distribution (all with attachment)

* (survey request also attached)

D. Kailey, Missoula*

K. Barnes, Bridge

M. Strizich, Materials

J. H. Horton, Right-of-Way*

D.J. Blacker, Maintenance

S. Straehl, Planning

! J.A. Riley, Environmental

M. McArthur, Construction En

D.E. Williams, Traffic & Safet

R. B. Jackson, Geotech

C. Genzlinger, FHWA (HOP-N

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Copy sent to Missoula 8/24/06

AUG 2 1 2006

ENVIRONMENTAL



Montana Department of Transportation PO Box 201001 Helena, MT 59620-1001

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To:

Paul R. Ferry, PE

Highways Engineer

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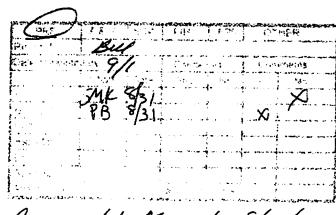
LA. Riley, Environmental

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Copysint to Missoula 8/34/06

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Paul R. Ferry, PE August 16, 2006 Page 2 of 8 HS.. 473-1(2)12 2006 Guardrail - S. of Conner UPN 6076000

e-copies:

Preconstruction Engineer

Hydraulics Engineer Hydraulics Designer, Missoula District Environmental Bureau Resources Section Super. Missoula District Biologist (Helena Env.

Bureau)
Missoula District Project Development

Engineer Engineer

Traffic Engineer

Missoula District Traffic Project Engineer

(Helena)
Safety Management Engineer

Bridge Area Engineer, Missoula District

Pavement Engineer

Missoula District Geotechnical Manager

(Helena)

Supervisor, Photogrammetry & Survey

Section

Missoula District Engineering Services

Missoula District Materials Lab Maintenance Chief - Kalispell

R/W Utilities Section Supervisor

R/W Design Manager

R/W Access Management Section Manager Engineering Information Services

Public Involvement Officer Project Analysis Bureau Chief Research Section Supervisor Secondary Roads Engineer

Preliminary Field Review Report

HSIP 473-1(2)12

SF069 - Guardrail - S of Conner UPN 6076000

Work Type 310 - Roadway & Roadside Improvements

1. <u>Introduction</u> – A preliminary field review was held on April, 26, 2006. The following attended the field review.

Wade Salyards, PE, CE Specialist IV, Road Design, Helena Bob Eide, CE Specialist III, Road Design, Helena Ray Sacks, Construction, Butte Mike Nichols, Traffic Operations Crew Leader, Ravalli County Bill Meisner, Ravalli County Road Foreman

- 2. Proposed Scope of Work We propose to install guardrail along the east side of Secondary 473 between Reference Post (RP) 12.0± and 12.6± The project was nominated with limits of RP 12.0± to RP 12.5± to address an accident cluster identified by Safety Management.
- Project Location and Limits The project is on Secondary 473 in Ravalli County. It begins at RP 12.0±, 12 miles southwest of the junction of US 93 and Secondary 473. It extends southerly 0.6± miles to RP 12.6±. The approximate as-built station limits are Station 630+00 to 662+00 (stationing increases from north to south). The project limits may change slightly as the design is refined. Revisions will be documented in the scope of work report.
- 4. Physical Characteristics S-473 is functionally classified as a secondary rural collector. The road is on the narrow corridor between the West Fork of the Bitterroot River to the east and a steep hillside to the west. The roadway grades range from level to gently rolling, but the river and adjacent mountainous terrain constrain the horizontal alignment.

There is little development along this section of road. There are numerous driveways just north of the north project limit of RP 12.0. There is one forest road approach within the project limits at RP 12.032 on the east side of the road that has a steep approach. There is a pullout area from approximately RP 12.372 to RP 12.436 on the east side of the road for river access.

The road was originally built in 1958 under project S - 268(1). An overlay was placed in 1996 under RTS 473-1(1)0 [3238].

The existing paved width is generally 24 feet wide with two 11 foot travel lanes and two 1 ft shoulders.



Existing fill slopes range from 6:1 to 1½:1 and fill heights range from less than 9 ft to over 18 ft. Existing cut depths are generally less than 9 ft, back slopes are 3:1 or steeper, and inslopes are 2:1 to 3:1 and steeper.

This photo is at RP 12.351 looking south. The fill slope is about 1½:1, with about 4 feet between the edge of pavement and the hinge point of the fill.



The horizontal alignment consists of 3 flat curves. The sharpest curve, at RP 12.096, has an 818.51 foot radius and is 723.1 feet long. The curve's radius exceeds the minimum of 760 feet for a 50 mph design speed.

The vertical alignment features fairly level grades connected by two 400 foot sag vertical curves and an 800 foot crest vertical curve. The steepest grade within the project limits is -1.43%. There is a +2.13% grade just to the south of RP 12.5 that may impact the design of the guardrail.

The field review team noticed that the some of the fill slopes along this section of road (on the east side of the road) have some large pieces of blasted rock and/or boulders in them. This was probably from the original construction of the road where they put rocky material from the cut slope on the west side of the road in the fill section.

5. <u>Traffic Data</u> – The letting date and design year traffic volumes were projected by applying a 2.7% annual growth rate to the 2006 AADT of 850. This provides enough precision for the guardrail design criteria that is traffic-volume dependent.

2006 ADT = 850 (Present) 2007 ADT = 880 (Letting Date) 2027 ADT = 1,490 (Design Year) Growth Rate = 2.7% (Annual)

6. Accident History – The segment of S - 473 from RP 12.0 to RP 12.5 had 8 recorded crashes from January 1, 1994 to December 31, 2003. Five crashes were considered correctable by the proposed improvements. Of these crashes, 4 were injury crashes resulting in 8 injuries and 1 was a property damage only crash. There were no fatal crashes during this time period.

The cost/benefit ratio was calculated at 5.27, based on a construction cost estimate of \$120,900. The project is on a rural collector, so it qualifies for funding under the High Risk Rural Road program.

7. Major Design Features – We propose to design this project in accordance with the geometric design criteria for the pertinent design elements (i.e. guardrail and slope flattening), as presented in the 1992 Geometric Design Standards. Additional guidance will be obtained from the Road Design Manual (as updated June 2006), particularly Figure 12-5 (Geometric Design Criteria for Rural Collector Roads) and Chapter 14 (Roadside Safety).

Although we will strive to achieve 50 mph design speed criteria for guardrail, the existing topography (steep embankments and approaches) may limit the extent to which the shy distance and length of need requirements can be met. The guardrail will be designed to provide a minimum shy distance (distance from edge of 12-foot driving lane to face of rail) of 2 feet. Adequate length of need will be provided where practical to do so, with consideration given to intersection sight distance and the impact to private approaches.

The design will be done in US Customary Units, and will be assigned to the Missoula crew of the Road Design Section in Helena.

- a. <u>Design Speed</u> We propose a design speed of 50 mph, appropriate because although the grades are characteristic of level terrain (60 mph), the horizontal alignment is more characteristic of mountainous terrain (45 mph), so a 50 mph design speed (rolling terrain) is a reasonable compromise. The posted speed limit is 55 mph.
- b. Horizontal Alignment No changes are proposed.

- c. <u>Vertical Alignment</u> No changes are proposed.
- d. <u>Typical Sections</u> No changes to the existing roadway are proposed. Shoulder gravel may be required to level the area between the edge of pavement and the face of the guardrail. Embankment-in-place will be used to flatten slopes at end sections.
- e. Geotechnical Considerations No involvement.
- f. <u>Hydraulics</u> No involvements
- g. <u>Bridges</u> There are no bridges on this project.
- h. Traffic Engineering The only Traffic Engineering involvement will be the possible resetting of three signs. There is a curve warning sign at RP 12.35± that may interfere with guardrail installation. The sign appears to be five to six feet off the edge of pavement. The "falling rock" warning sign at RP 12.68 and the road name guide sign at RP 12.70± may also have to be reset if the guardrail extends that far south.
- i. <u>Pedestrian/Bicycles/ADA</u> There is no evidence of much pedestrian or bicycle use on the roadway. Placement of the guardrail 2 feet from the edge of 12-foot driving will likely affect the comfort level of bicyclists and pedestrians, but providing a wider shoulder is beyond the scope of this project.
- j. <u>Miscellaneous Features</u> Guardrail itself is inherently considered a miscellaneous design feature. Issues associated with the design of the guardrail include the following:
 - Along some embankments, difficult-to-construct sliver fills would be needed to provide the two feet of 10:1 or flatter embankment behind the guardrail post. We propose to specify 7-foot guardrail posts spaced at 3'1½" (Detailed Drawing 606-11A&B) along the entire project to eliminate the need for two feet of widening behind the rail.
 - 2) Sight distance from at least one approach will be a concern. We will consider slope flattening the segment just south of the approach at RP 12.032 to reduce the length of rail in proximity to the approach. This approach has a steep downhill landing which may contribute to restricted sight distance after the guardrail is installed. We'll evaluate the feasibility of raising the elevation of the approach landing.

We will also look at specifying steel guardrail posts where sight distance is restricted. The steel post is considerably smaller in

- cross-section than a wood post, so the driver has greater ability to see "through" the line of posts when viewed obliquely from an approach.
- Areas disturbed by grading will be revegetated. The area will probably be about 0.2 acre, so we'll consider a lump sum bid item for REVEGETATION instead of a bid item by the acre. The item would require revegetation of all areas disturbed by construction and would include topsoil, seed, mulch, etc.
- k. <u>Context Sensitive Issues</u> No issues contest sensitive issues have been identified.
- 8. Other Projects There are currently no other programmed projects on MT 473 between RP 0± and RP 14.0±. The section of S-473 between the Highway 93 junction and the Conner Cutoff Road junction at RP 3.1± was closed on May 26th this year due to high water undercutting the roadway at RP 0.5±. Traffic is being detoured on US 93 to the Conner cutoff and back onto S-473. A project may be programmed in the near future after preliminary geotechnical investigation to determine the magnitude of the fix.
- 9. <u>Location Hydraulics Study Report</u> This report is not required, given the limited scope of the project.
- 10. <u>Design Exceptions</u> The design exception process does not apply to safety projects. The applicable design elements that do not comply with MDT design criteria (i.e. guardrail details, shy distance, etc.) will be discussed in the scope of work report.
- 11. Right-of-Way The existing right-of-way is 200 ft on the east side of the road. The existing right-of-way on the west side of the road is 50 feet from Station 630+31 to 643+00 and 200 feet from 643+00 to 656+71. No right-of-way involvement is anticipated.
- 12. <u>Access Control</u> No access control is proposed.
- 13. ITS -N/A
- 14. <u>Utilities/Railroad</u> There is an overhead power line along the west side of the road. There are 4 power poles associated with this power line between RP 12.147 to RP 12.467. The power poles look like they are approximately 10 to 12 feet from the edge of pavement and should not affect the placement of guardrail.

There are pedestals for buried telephone visible along the route. The one most likely to be impacted is at RP 12.04± on the east side, just south of an approach.

If this approach is revised to improve sight distance, the pedestal will probably be in conflict. We suspect the phone line is buried in the ditch along the west side, so it would not be impacted by guardrail installation on the east side. The phone line location will have to be verified during survey.

There are no railroads within the project limits.

- 15. <u>Survey</u> The survey request is attached. The District is requested to provide a survey that provides information including, but not limited to, PTW centerline, edge of pavement, edge of shoulder, toe of ditch, approaches, power poles, underground utilities, and signs.
- 16. Public Involvement A "Level A" public involvement plan is appropriate for this project. A news release for the project will be distributed to the various local media. The public involvement plan may be adjusted if controversial issues arise.
- 15. Environmental Considerations No significant environmental issues are anticipated. The review team did notice some large trees along the embankments we propose to shield with guardrail. Some tree may have to be removed if they are within the deflection zone behind the guardrail. We did not notice any obvious wetlands or hazardous waste sites. There are no apparent 4(f) or 6(f) involvements.

The level of environmental evaluation and documentation for a Programmatic Categorical Exclusion is appropriate.

- 17. <u>Traffic Control</u> Appropriate signing, lane closures, detours, etc. in accordance with the MUTCD, will be used to maintain traffic through construction. Traffic will likely be restricted to one lane during working hours. During non-working hours, we will try to maintain two-way traffic through the project.
- 18. <u>Project Management</u> Bill Squires will be the project manager, and the Missoula crew of the Road Design section will develop the plans.
- 19. Ready Date: The ready date will be established through the OPX2 override process. Similar projects in the recent past have had development times of about 18 months.

20. Preliminary Cost Estimate – The preliminary construction cost estimate was developed using Estimator and preliminary quantities based on project limits of RP 12.04± to RP 12.59±:

14 12.012 (014 12.092)		w/ ICAP (<u>10.91%)</u>
Guardrail installation and related slope work - Traffic Control (Lump Sum) Subtotal Mobilization (18%) Subtotal Contingencies (5%) Subtotal Inflation (3% per year for 2 years) Total CN	\$ 101,0 \$ 15,0 \$ 116,0 \$ 21,0 \$ 137,0 \$ 7,0 \$ 144,0 \$ 9,0 \$ 153,0	000 000 000 000 000 000	170,000
CE (8%)	,	2,000 \$	13,000

21. Location Map

